

IN THE CLAIMS:

Please amend the claims as follows:

1. (currently amended) A method (200, 300) of downloading software to a software definable radio (105), the method characterised by the steps of comprising:

determining (305) ~~one or more at least one~~ configuration profile changes of said software definable radio (105);

downloading (320, 340) software automatically to an intermediate communication unit, in response to said determination; and

re-configuring said software definable radio (105), by said intermediate communication unit (120), wherein said configuration profile change is based on a change to ~~one or more~~ at least one of the following:

- (i) A service required by said software definable radio (105),
- (ii) A software definable radio user profile,
- (iii) A location of said software definable radio (105),
- (iv) Software Definable Radio terminal's capabilities, ~~and/or and~~
- (v) Available networks to the Software Definable Radio.

2. (currently amended) ~~A method (200, 300)~~ The method of downloading software to a software definable radio according to Claim 1, the method further characterised by the steps of comprising:

determining (330), by an intermediate communication unit (120), a number of communication links for downloading said software;

selecting at least one of said number of communication links;

downloading (340) software to an intermediate communication unit (120) in response to said step of selecting; and

re-configuring said software definable radio (105), by said intermediate communication unit (120), using said downloaded software.

3. (currently amended) The method (200, 300) of ~~downloading software to a software definable radio (105)~~ according to Claim 1 or Claim 2, wherein the method is further characterised by the steps of according to claim 1, further comprising:

accessing a remote communication network (160) in order to provide the selected downloadable software; and

synchronising said software definable radio (105) to said remote communication network (160) in order to select and download software.

4. (currently amended) The method (200, 300) of ~~downloading software to a software definable radio (105)~~ according to Claim 1 or Claim 2, wherein the method is further characterised by the step of, further comprising:

providing at least one of a user of said software definable radio (105) and/or and the intermediate communication unit (120) with the ability to select one or more communication links to download said software.

5. (currently amended) The method (200, 300) of ~~downloading software to a software definable radio (105)~~ according to Claim 1 or Claim 2, wherein said communication link operates in accordance with an IPv6 and/or IPv4 specification.

6. (currently amended) The method (200, 300) of ~~downloading software to a software definable radio (105)~~ according to Claim 1 or Claim 2, wherein the method is further characterised by the preceding step of further comprising:

mapping, in response to said determination (305) of one or more configuration profile change(s), said change(s) to a locally stored database to provide reconfiguration software to said software definable radio (105).

7. (canceled)

8. (canceled).

9. (currently amended) A communication unit (120) located between a software definable radio (150) and one or more remote information databases (165) that contains software to be downloaded to said software definable radio (105), the communication unit ~~characterised by comprising:~~

~~one or more at least one~~ mapping databases (150) storing configuration profile mapping information of said software definable radio relating to ~~one or more at least one~~ remote information databases (165);

a transport module (145), operably coupled to said ~~one or more at least one~~ mapping databases (150) to facilitate communication between said communication unit (120) and said ~~one or more at least one~~ remote information databases (165), and

a controller (130), operably coupled to said ~~one or more at least one~~ mapping databases (150) and said transport module (145), to automatically request and receive downloadable software to said communication unit (120) for forwarding to said software definable radio (105).

10. (currently amended) The communication unit (120) according to Claim 9, ~~the communication unit further characterised by wherein~~ said transport module ~~supporting supports~~ several network communication links for downloading at least one of software features ~~and/or~~ and functions to said software definable radio using ~~one or more at least one~~ of said several network communication links.

11. (currently amended) The communication unit (120) according to Claim 9 or Claim 10, ~~the communication unit further characterised by wherein~~ said transport module (145) ~~supporting supports at least one of version 4 and version 6 of TCP/IP (v4 or v6)~~ suite of application protocols.

12. (currently amended) The communication unit (120) according to Claim 10, wherein said controller selects automatically ~~said one or more at least one~~ communication ~~links~~ link based on said configuration profile change.

13. (currently amended) The communication unit (120) according to Claim 10, wherein said controller is arranged to communicate communication link options to a user of said software definable radio to enable said user to select ~~one or more at least one~~ of said several network communication links.

14. (currently amended) The communication unit (120) according to Claim 9 or ~~Claim 10~~, wherein said controller is arranged to receive configuration profile information from a user of the software definable radio (105).

15. (currently amended) The communication unit (120) according to Claim 9 or ~~Claim 10~~, wherein said controller (130) includes a filtering mechanism to generate a user profile based on determined operational requirements or habits of said user of said software definable radio (105).

16. (currently amended) The communication unit (120) according to Claim 9 or ~~Claim 10, the communication unit (120) further characterised by, further comprising:~~ an application programmable interface (125), operably coupled to said controller (130) and capable of operable coupling to said software definable radio (105), to upload software to said software definable radio (105) from said communication unit (120).

17. (currently amended) The communication unit (120) according to Claim 9 or ~~Claim 10, the communication unit (120) further characterised by a first wherein~~ one of said databases (150) being is a mapping database to enable said communication unit (120), in response to determining ~~one or more at least one~~ configuration profile ~~change(s)~~ change, to map

said ~~one or more change(s)~~ at least one change to a second locally stored database to provide reconfiguration software to said software definable radio (105).

18. (currently amended) The communication unit (120) according to Claim 9 or ~~Claim 10, the communication unit (120) further characterised by wherein~~ said configuration profile change ~~including one or more includes at least one~~ of the following changes:

- (i) A service required by said software definable radio (105),
- (ii) A software definable radio user profile,
- (iii) A location of said software definable radio (105),
- (iv) Software Definable Radio terminal's capabilities, ~~and/or and~~
- (v) Available networks to the Software Definable Radio.

19. (currently amended) The ~~method (200, 300) of downloading software to a software definable radio according to Claim 1 or a~~ communication unit (120) according to Claim 9 or ~~Claim 10~~, wherein the software definable radio (105) configures an intermediate communication unit (120) with ~~one or more at least one~~ of the following items of information:

- (i) ~~One or more At least one SDR configuration profiles profile, for example a user, service, terminal and/or network profiles;~~
- (ii) Location of said software definable radio;
- (iii) Parameters or features of the transport module;
- (iv) A request for a ~~at least one of~~ new air interface protocol stack, ~~or new or and~~ additional software applications;
- (v) A request that the communication unit (120) re-configures ~~at least one or more operational parameters parameter~~ of the software definable radio (105);
- (vi) An ability to be notified of an event occurring in the communication unit; and
- (vii) A time schedule for desired downloads.

20. (currently amended) The ~~method (200, 300) of downloading software to a software definable radio according to Claim 1 or a~~ communication unit (120) according to Claim

~~9 or Claim 10~~, wherein the software downloaded by said software definable radio includes at least one of radio access technology capabilities, enhanced features or new services.

21. (canceled)

22. (canceled)

23. (currently amended) A distributed software definable radio re-configuration management mechanism comprising:

a software definable radio (105); and

a communication network (160) having a number of databases (165, 168) storing software applicable to said software definable radio (105);

wherein said distributed software definable radio re-configuration management mechanism ~~is characterised by~~ comprises:

an intermediary device (120), operably coupled to said software definable radio and comprising memory (135) for storing software required by said software definable radio (105), ~~for example obtained from said network (160)~~, such that said software required by said software definable radio is distributed between said intermediary device and ~~said one or more remote information at least one of the number of~~ databases (165, 168) in said communication network (160).

24. (canceled)